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Lab 6
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Usn 1bm23cs008
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Student.java package CIE;
public class Student {
protected String name;
protected int[] marks;
public Student(String name)
{
this.name = name;
this.marks = new int[5];
}
public String getName()
{
return name;
}
public void setMarks(int[] marks)
this.marks = marks;
}
public int[] getMarks() {
return marks;
}
```

}

```
Internal.java package CIE;
public class Internal extends Student
{
private int[] internalMarks;
public Internal(String name, int[] internalMarks)
{
super(name); this.internalMarks = internalMarks;
this.setMarks(internalMarks);
}
public int[] getInternalMarks()
{
return internalMarks;
}
public void setInternalMarks(int[] internalMarks)
{
this.internalMarks = internalMarks; this.setMarks(internalMarks);
}
}
External.java package SEE;
import CIE.Student;
public class External extends Student
{ private int[] externalMarks;
public External(String name, int[] externalMarks)
{
super(name);
this.externalMarks = externalMarks;
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this.setMarks(externalMarks);
}
public int[] getExternalMarks()
{
return externalMarks;
}
public void setExternalMarks(int[] externalMarks)
{ this.externalMarks = externalMarks;
this.setMarks(externalMarks); }
}
import CIE.Internal;
import SEE.External;
import java.util.Scanner;
public class Main { public static void main(String[] args) {
 Scanner sc = new Scanner(System.in);
System.out.print("Enter the number of students: ");
int n = sc.nextInt();
sc.nextLine();
 Internal[] internalStudents = new Internal[n];
External[] externalStudents = new External[n];
for (int i = 0; i < n; i++)
 System.out.print("Enter the name of student " + (i + 1) + ": ");
String name = sc.nextLine();
System.out.println("Enter internal marks (5 courses) for " + name + ": ");
int[] internalMarks = new int[5]; for (int j = 0; j < 5; j++)</pre>
internalMarks[j] = sc.nextInt();
sc.nextLine();
System.out.println("Enter external marks (5 courses) for " + name + ": ");
int[] externalMarks = new int[5];
for (int j = 0; j < 5; j++)
externalMarks[j] = sc.nextInt();
 sc.nextLine();
 internalStudents[i] = new Internal(name, internalMarks);
 externalStudents[i] = new External(name, externalMarks); }
 System.out.println("\nFinal Marks for all students:");
for (int i = 0; i < n; i++)
int[] internalMarks = internalStudents[i].getMarks();
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int[] externalMarks = externalStudents[i].getMarks();
System.out.println("\nStudent: " + internalStudents[i].getName());
System.out.print("Internal Marks: ");
for (int mark : internalMarks)
{
    System.out.print(mark + " "); }
    System.out.print("\nExternal Marks: ");
    for (int mark : externalMarks)
    {
        System.out.print(mark + " "); }
        System.out.print("\nFinal Marks: ");
        for (int j = 0; j < 5; j++)
        {
        int finalMark = internalMarks[j] + externalMarks[j];
        System.out.print(finalMark + " ");
        }
        System.out.println();
    }
    sc.close();
}
}</pre>
```

```
D:\cd 1bm23cs008

D:\lbm23cs008>cd NewFolder
The system cannot find the path specified.

D:\lbm23cs008>cd New Folder

D:\lbm23cs008\New folder>javac -d . Student.java

D:\lbm23cs008\New folder>javac -d . Internal.java

D:\lbm23cs008\New folder>javac -d . External.java

External.java:1: error: class, interface, enum, or record expected External.java package SEE;

1 error

D:\lbm23cs008\New folder>javac -d . External.java

D:\lbm23cs008\New folder>javac -d . External.java

D:\lbm23cs008\New folder>javac -d . External.java
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```
D:\1bm23cs008\New folder>java Main
Enter the number of students: 1
Enter the name of student 1: abhinav
Enter internal marks (5 courses) for abhinav:

1
1
1
1
1
Enter external marks (5 courses) for abhinav:
2
2
2
2
Final Marks for all students:

Student: abhinav
Internal Marks: 1 1 1 1 1
External Marks: 2 2 2 2 2
Final Marks: 3 3 3 3 3
```